PONY

ICT

By

Eng. Osama Youssef

6th Primary

First Term

Preparation Team

Suzy Atef

Gamal Abdelnasser Rizk

Moaz AbdelAzim

Shimaa Abaza

Unit 1

The Role of Technology in Our Lives

Unit Lessons:

Lesson 1 Computer Networks

Lesson 2 Future Technology

Lesson 3 Advanced Technology for People with Special Needs

Lesson 4 Digital Search Tools

Lesson 5 How Operating Systems Work

Lesson 6 I'm a Web Designer

Lesson 1 Computer Networks

Computer Newtorks شبكات الكمبيوتر

- They are groups of computer devices that are connected to each other to communicate and share information.
- هي مجموعة من أجهزة الكمبيوتر المرتبطة ببعضها لكي تتواصل وتتشارك المعلومات.

- There are two types of computer networks:

1 Wired Networks	2 Wireless Networks
• They connect devices via cables or wires.	• They connect devices via wireless or Wi-Fi.
• تقوم بتوصيل الأجهزة عبر الكابلات أو الأسلاك.	• تقوم بتوصيل الأجهزة عبر اللاسلكي أو Wi-Fi.

Network Components مكونات الشبكة

1 Modem المُودم

1. It connects the internet in your home.
2. It converts and transforms the signal from the internet service provider (ISP) into a digital signal.

Signal From ISP → Modem → Digital Signal

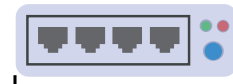
1. هو يُوصِّل الإنترنت بمنزلك.
2. فهو يستخدم لتحويل الإشارة المستقبلة من مزود الخدمة (ISP) إلى إشارة رقمية.

2 Router الراوتر

1. It is a device that provides the Internet throughout the home.
2. It sends data between the devices in the home.
3. It connects devices using wires or wireless (Wi-Fi).

1. هو جهاز يوفر الإنترنت في جميع أنحاء المنزل.
2. يرسل البيانات بين الأجهزة في المنزل.
3. يربط الأجهزة باستخدام الأسلاك أو اللاسلكي (Wi-Fi).

③ Switches المُحولات



- They send data to a specific device over a network, which makes connections easier and faster.
- Switches are intelligent devices.

- يمكنها إرسال بيانات إلى جهاز مُعيَّن عبر شبكة؛ وذلك يساعد في تيسير التواصل وإسراعه.
- المحولات أجهزة ذكية.

④ Cables and Ports الأسلاك والمنافذ

- Some devices connect to the Internet through wires (etherent cables).
- These wires plugged into holes, called ports.

- بعض الأجهزة تتصل بالإنترنت من خلال أسلاك خاصة.
- هذه الأسلاك تدخل في فتحات تسمى منافذ.

⑤ Local Area Network (LAN) الشبكة المحلية

- LAN connects devices via cables is a type of wired network.
- **Example:** School computer Lab.

- تعتبر الشبكة المحلية المتصلة بكابل توصيل بين أجهزة الكمبيوتر من أنواع الشبكات السلكية.
- **مثل:** شبكة أجهزة الكمبيوتر بمعمل المدرسة.

How does the Internet Work? كيف تعمل شبكة الإنترنت؟

- When you want to watch a video on the Internet, the following steps occur:

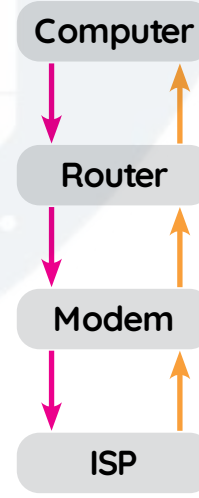
Step 1: Your device (computer or mobile) requests the video from the Internet.

Step 2: This request goes to the Router.

Step 3: The request moves from the Router to the Modem which connects to ISP.

Step 4: ISP sends the video to the Modem.

Step 5: The Router receives the signal and sends it to your device to display the video.



Remember:

» The internet service profider (ISP): a company that provides you with Internet service.

• **هي الشركة التي تزودك بخدمة الإنترنت ISP.**

• عندما تريد مشاهدة فيديو على الإنترنت، تحدث هذه الخطوات:

1. يطلب جهازك (الكمبيوتر أو الموبايل) الفيديو من الإنترنت.
2. يذهب هذا الطلب إلى الراوتر.
3. ومن الراوتر إلى المودم، الذي يتصل بمزود الخدمة (الشركة التي تعطيك وتزودك بخدمة الإنترنت).
4. يُرسل مزود الخدمة ISP الفيديو إلى المودم.
5. يستقبل الراوتر الإشارة، ويرسلها إلى جهازك ليعرض الفيديو.

Artificial Intelligence (AI) الذكاء الاصطناعي

Artificial Intelligence (AI)

• It is a comprehensive term for computer applications that perform complex tasks that simulate humans.

• الذكاء الاصطناعي: مصطلح شامل لتطبيقات كمبيوترية تؤدي مهام معقدة تحاكي بها البشر.

Applications of AI: تطبيقات الذكاء الاصطناعي

1. The ability to learn and deduce.
2. Writing an article on a topic.
3. Imitate sounds.
4. Create video.
5. Predict the faults that may occur in networks.

1. القدرة على التعلم والاستنتاج.
2. كتابة مقال حول موضوع ما.
3. تقليد الأصوات.
4. إنتاج مقاطع فيديو.
5. التنبؤ بالأعطال المحتملة في الشبكات.

أهم الكلمات والمصطلحات

Internet Service Provider (ISP)	مزود خدمة الإنترنت	Human element	عنصر بشري	Wireless networks	شبكات لاسلكية
Specific device	جهاز محدد	Signal	إشارة	Purpose	غرض
Wired networks	شبكات سلكية	Common	شائع أو مشترك	Complex	معقد
Comprehensive	شامل	Sequence	تسلسل	Simulate	يحاكي
Machine	آلة	Imitate	يقلد		

Exercises on Lesson 1

1 Choose the correct answer:

1 ..... is/are a group of computer devices that are connected to each other for a common purpose. (الإسكندرية – منتزه ثانٍ 2024)

a. Devices b. Networks c. Routers d. Software

2 A school computer lab is an example of a ..... .

a. service provider b. LAN

c. Wi-Fi connection d. Global netweork

3 ..... is a comprehensive term for computer application that perform complex tasks that simulate human thinking and performance.

a. Artificial intelligence b. Application

c. Modern d. Router (قنا – نجع حمادي 2025)

4 ..... networks connect devices using Wi-Fi. (الجيزة – حدائق أكتوبر 2025)

a. Wired b. Wireless c. Software d. Both a and b

5 Through ..... you can transfer data with wires and cables.

a. wireless networks b. Wi-Fi

c. wired networks d. email (الإسكندرية – برج العرب 2024)

6 A router connects devices through ..... .

a. Wi-Fi b. cables

c. USB d. both a and b

7 Wireless networks are also known as ..... .

a. LAN b. Wi-Fi c. modem d. switch

8 The abbreviation of artificial intelligence is .....

a. AR b. ALT c. IA d. AI (دمياط 2024)

9 The modem converts the signals from the ..... into a digital signal.

a. device b. LAN c. ISP d. Wi-Fi

10 A network that is connected without wiring is named ..... .
a. physical wiring b. wireless c. ports d. cables
(الإسكندرية – شرق 2024)

11 Cables and wires in wired networks are plugged into holes called ..... .
(القاهرة – الزيتون 2025) (أسيوط 2025) (أبناؤنا في الخارج 2024)
a. ports b. Wi-Fi c. switches d. modems

12 ..... are intelligent devices that send data to a specific device over a network.
(البحيرة – دمنهور 2024)
a. Switches b. Hubs c. Modems d. Cables

13 Artificial Intelligence can ..... .
a. write an article b. create a video
c. predict faults in networks d. all of them

14 A ..... converts the signal from the internet service provider (ISP) into a digital signal.
(الإسكندرية – العجمي 2025) (القليوبية 2025) (الغربية 2024)
a. modem b. router c. switch d. scanner

15 In networks, a LAN stands for ..... .
a. Long Area Network b. Local Area Network
c. Large Area Network d. Linked Area Network

16 When a user requests a video from the Internet, the request first goes to the ..... .
a. modem b. router
c. ISP d. digital signal

17 Wired networks connect devices using ..... .
a. Wi-Fi b. wires c. cables d. both b and c

18 ..... is a technology that help imitate the sound of an actual human being.
a. Artificial intelligence b. speaker (القاهرة – الزيتون 2025)
c. Bluetooth d. Assistive technology

19 The Internet service provider is Known by the abbreviation ..... .
a. GPS b. USB c. ISP d. GRP (أسيوط 2025)

2 Put (✓) or (✗):

1 A computer doesn't need network connection devices to transfer data. ( )
(القليوبية 2024)

2 Devices can be connected without wiring (wireless or Wi-Fi). ( )
(دمياط 2024) (الإسكندرية – وسط 2024)

3 Wireless networks connect devices with physical wiring and cables. ( )

4 A modem connects devices inside a LAN. ( )

5 The modem is the device that connects to the service provider (ISP). ( )

6 Ports are special wires that connect devices to the Internet. ( )

7 AI can be used for writing an articale about a topic. ( )

8 A modem converts the signal from the ISP into a digital signal that can be read by devices. ( )
(الشرقية – ديرب نجم 2025)

9 Artificial intelligence can imitate the sounds of people. ( )
(الشرقية – الإبراهيمية 2025)

10 A modem sends data to a specific device over a network. ( )
(القاهرة – المرج 2025) (الإسكندرية – المنتزة أول 2025) (الجيزة – الشيخ زايد 2024)

11 When a computer requests a video from YouTube, the request first goes to the Modem. ( )

12 Wireless networks are connected by Wi-Fi. ( )
(الإسكندرية – شرق 2025)

13 Switches send data to a device over a network to make connections easier. ( )
(الإسكندرية – المنتزة أول 2025)

14 The Router only uses Wi-Fi to distribute the Internet inside the house. ( )

15 Artificial intelligence is doing a complex task that simulates the performance and thinking of human. ( )
(القاهرة – الزيتون 2025)

3 Complete the missing parts using the words between the brackets:

(ISP – ports – specific – modem – AI)

1 ..... works to imitate sounds when provided with the tone of voice of an actual being.
(طنطا – شرق 2025) (طلخا 2025) (الدقهلية 2025)

2 Switches send data to a(an) ..... device on the network.

3 In wired networks, cables and wires are plugged into .....

4 Internet service provider is abbreviated as ..... (القاهرة – غمرة 2025)

5 A ..... converts the signal from the (ISP) into a digital signal.

(الجيزة – الدقي 2025) (الإسماعيلية 2024)

4 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 AI	a. A device that provides the internet throughout the home.
2 A router	b. are groups of devices or things that are connected together.
3 A switch	c. is a hole on devices where cables are plugged in.
4 Networks	d. computer applications that simulate the thinking and performance of people.
5 A port	e. is an intelligent device that send data to a specific device on the network.

1 ..... 2 ..... 3 ..... 4 ..... 5 .....

Play with PONY

Help the Robot to find the suitable device.

(Modem - Router - Switch)

Internet

3 .....

ISP

signal

Digital signal

1 .....

2 .....

1 ..... converts the signal from ISP into a digital signal.

2 ..... is a device that provides the Internet throughout the home.

3 ..... sends data to a specific device over a network.

Lesson 2 Future Technology

Future Technology such as:

❶ Augmented reality. ❷ Virtual Reality. ❸ Artificial intelligence.

- **التكنولوجية المستقبلية مثل:** الواقع المُعزَّز والواقع الافتراضي والذكاء الاصطناعي.

Virtual Reality (VR) الواقع الافتراضي

Virtual reality (VR)

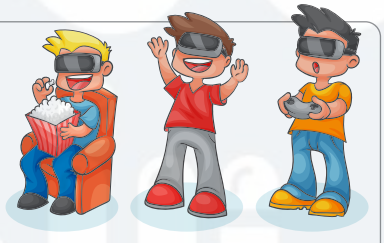
- A virtual 3D environment that allows users to explore and interact with the surroundings as if they were in reality.
- To experience VR, users often wear a VR headset.

- **الواقع الافتراضي:** بيئة تخيلية ثلاثية الأبعاد تسمح للمُستخدِمين باستكشاف محيطهم والتفاعُل معه وكأنَّه حقيقة.
- لتجربة الواقع الافتراضي، يرتدي المستخدمين «سماعة رأس VR».

Applications of VR تطبيقات الواقع الافتراضي

❶ You can visit far museums virtually.

❷ You can play video games that make you feel like flying a plane or travelling in space.



❶ يمكن من خلاله أن تزور المتاحف البعيدة افتراضيًا.

❷ يمكنك لعب ألعاب الفيديو التي تجعلك تشعر وكأنك تقود طائرة أو تسافر في الفضاء.

Augmented Reality (AR) الواقع المعزز

- Imagine looking into your living room through your phone screen, and suddenly you see a dinosaur standing next to your seat, this is AR.

- تخيل أنك تنظر لى غرفة المعيشة في منزلك من خلال شاشة الهاتف، وفجأة ترى يناصورًا صغيرًا يقف بجوار مقعدك، هذا هو الواقع المعزز.

Augmented Reality (AR)

- It combines the real world with the virtual world by displaying a 3-D models look like the real world.
- The digital world adds new things in our real world.

- يجمع الواقع المُعزز بين العالم الحقيقي والواقع الافتراضي بعرض نماذج ثلاثية الأبعاد لتشبه العالم الحقيقي.
- ويضيف العالم الرقمي أشياء جديدة إلى عالمنا الحقيقي.

Applications of AR: تطبيقات الواقع المعزز

- A phone games that place cartoon characters in the real places around you.

- ألعاب الهاتف التي تضع شخصيات كرتونية في الأماكن الحقيقية التي أنت فيها.

Artificial Intelligence (AI)

Artificial Intelligence (AI)

- It is the ability of a machine, such as a computer, to think, learn, and deduce.
- A computer learns by analyzing the provided information.

- الذكاء الاصطناعي: هو قدرة آلة مثل الكمبيوتر على التفكير والتعلُّم والاستنتاج.
- يتعلم الكمبيوتر من خلال تحليل المعلومات المتوفرة له.

Applications of AI:

1. It predicts the word you will write from the words you have written previously.
2. AI is used to unlock your phone with facial recognition.
3. Robots that can manufacture products in factories.

أمثلة على الذكاء الاصطناعي:

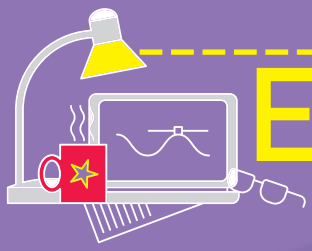
1. يتنبأ بالكلمة التالية التي ستكتبها؛ حيث يتعلَّم من الكلمات التي كتبتها سابقًا.
2. يُستخدم الذكاء الاصطناعي لإلغاء القفل وفتح هاتفك من خلال نظام التعرُّف على الأوجه.
3. الروبوتات التي تستطيع أن تصنع أشياء في المصانع.

How Advanced Technology Help Us?
كيف تساعدنا التكنولوجيا المتقدمة؟

- These technologies make our lives easier and more fun.
- It helps people of determination in their daily tasks.

- تساعدنا هذه التقنيات في جعل حياتنا أسهل وأكثر متعة.
- كما تساعد الأشخاص ذووي الاحتياجات الخاصة في العديد من مهامهم اليومية.

أهم الكلمات والمصطلحات			
Immerse	ينغمس	Augmented reality	الواقع المُعزَّز
Facial recognition	التعرُّف على الوجه	Virtual reality	الواقع التخيلي (الافتراضي)
Headset	سماعة الرأس	Interact	يتفاعل
To experience VR	لتجربة VR	Combine	يجمع
Flat	مسطح أو مستوٍ	Ability	قدرة
Predict	يتوقع	Surrounding	البيئة المحيطة
Deduce	يستنتج	Participant	مشارك
Future Technology	التكنولوجيا المستقبلية	Surface	سطح



Exercises on Lesson 2

1 Choose the correct answer:

1 ..... are examples of futuristic technology.

a. Virtual reality (VR)
b. Augmented reality (AR)
c. Artificial intelligence (AI)
d. All of them

2 ..... combines the real world with a virtual world by adding images using computers. (الجيزة – جنوب الجيزة 2025) (أسيوط 2024)

a. Virtual reality
b. Augmented reality
c. Assistive technology
d. Artificial intelligence

3 ..... is a virtual 3-D environment that allows users to explore and interact with the surroundings, as if it were reality. (القاهرة الجديدة 2024)

a. Virtual reality
b. Artificial intelligence
c. Assistive technology
d. Augmented reality

4 The ability of the computer to think, learn, and deduce is ..... .

a. virtual reality(VR)
b. augmented reality(AR)
c. artificial intelligence(AI)
d. none of them (الإسكندرية – وسط 2025)

5 Viewing virtual 3D characters placed into real world via a phone screen is an example of ..... .

a. virtual reality (VR)
b. Augmented Reality (AR)
c. Artificial Intelligence (AI)
d. Network devices

6 To experience virtual reality, users often wear ..... .

a. 3D glasses
b. smart gloves
c. AR headsets
d. VR headsets (الجيزة – حدائق أكتوبر 2025)

7 Augmented reality mixes the real world with a ..... world.

a. View
b. True
c. Virtual
d. Non of them (طنطا – شرق 2025)

8 Augmented reality shows a/an ..... model of what looks like the real world.

a. 2-D b. 3-D c. 4-D d. invisible

9 Users often wear ..... that block(s) out the real world.

a. a mobile b. Wi-Fi c. a mouse d. VR headsets

(القاهرة – عين شمس 2024)

10 Common applications of VR is in ..... .

a. games b. writing

c. networking d. all of them

11 ..... technology is used to unlock the phone using the face recognition system. (أسيوط 2025)

a. Assistive technology b. Artificial Intelligence

c. Virtual reality d. Transformers

12 Advanced technologies like AR, VR, and AI mainly aim to ..... .

a. replace all human work b. improve our lives

c. increase network security d. produce old products

13 AI learns by ..... available examples.

a. analyzing b. storing c. saving d. ignoring

14 ..... predicts the word you will write from words you have written previously.

a. VR b. AR c. AI d. IR

15 All applications include ..... .

a. the ability to learn b. predicting computer faults

c. unlock your phone d. all of them

16 ..... Is the ability of the computer to think, learn and deduce.

a. AI b. VR

c. AR d. Non of them (المنوفية – شبين الكوم 2025)

2 Put (✓) or (✗):

1 A computer learns by analyzing available examples. ( )

2 AR, VR, and AI are considered futuristic technologies. ( )

3 Virtual reality (VR) is a virtual 3-D environment. (المنوفية – تلا 2024) ( )

4 To experience virtual reality, users often wear AR headsets. ( )

5 Artificial intelligence (AI) is the computer's ability to think, learn, and deduce. (الجيزة – جنوب الجيزة 2025) (المنوفية – تلا 2024) (الدقهلية 2024) ( )

6 Using VR, you can visit far museums virtually. ( )

7 There is no difference between augmented reality and virtual reality. (الجيزة – حدائق أكتوبر 2025) (أسيوط 2024) ( )

8 Virtual reality combines the real world with a virtual world by displaying 3D models look like reality. (الجيزة – العمرانية 2025) (الإسكندرية – وسط 2024) ( )

9 Robots that can manufacture products in factories are from VR applications. ( )

10 Future technology can improve daily life. (أسوان 2024) ( )

11 Users often wear AR headsets that block out the real world. ( )
(الإسكندرية – منتزه أول 2024)

12 VR headsets allow users to see the real world while using them.( )

13 Augmented reality can be done through mobiles and tablets. ( )
(القاهرة – عين شمس 2024)

14 AI can predict words based on previous writing. ( )

15 Virtual reality can show a 3-D model of what the real world looks like. (الإسكندرية – وسط 2024) ( )

16 A phone games that place a 3D character in a real place is an example of VR. ( )

17 Futuristic technologies can't help people with disabilities. ( )

18 AI is used to unlock your phone with facial recognition. ( )

19 An AR app can show you new furniture will look in your house.

(الإسكندرية – المنتزة أول 2025) ( )

3 Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 VR	a. includes AI, AR, and VR.
2 AR	b. it is the ability of a computer to think, learn, and deduce.
3 AI	c. they are application of using AI.
4 Robots	d. it is a virtual 3-D environment that allows users to interact with the surroundings, as if it were reality.
5 Future technlogy	e. it mixes of real world with virtual world.

1 ..... 2 ..... 3 ..... 4 ..... 5 .....

Test Yourself on Lessons 1&2

1 Choose the correct answer:

1 An example of an AI task is ..... .
a. drinking coffee b. driving a car
c. writing an article d. playing a sport

2 VR creates ..... .
a. virtual world b. real photos
c.simple text d. paper copy

3 The main types of computer networks is/are ..... .
a. wired b. wireless c. satellite d. both a and b

4 Wired networks use physical wiring and cables which are plugged into ..... on devices. (الشرقية – ديرب نجم 2025)
a. ports b. modem c. router d. keys

5 You can use headset to experience ..... .
a. AR b. VR c. AI d. ISP

6 The abbreviation of artificial intelligence is ..... . (دمياط 2024)
a. ALT b. IA c. AI d. ARI

7 LAN is considered as computers connected together with cables in a ..... network.
a. Wired b. Wireless c. Wide range d. Wi-Fi
(القاهرة – الزيتون 2025)

2 Put (✓) or (✗):

1 Switches don't send data to specific devices. (الإسكندرية – منتزه أول 2024) ( )

2 A computer network connects computers to each other to share information (أسيوط 2024) (السويس 2024) ( )

3 ISPs provide signals that modems convert into digital signals. ( )

4 AR competely replaces the real world. ( )

5 Devices can be connected without wiring (wireless or Wi-Fi). ( )
(الجيزة – الدقي 2025)

6 You can't visit far museums virtually using VR. ( )

7 AI can create videos and mimic sounds. ( )

8 Cables in wireless networks are plugged into holes called ports. ( )

Play with PONY

Follow the correct answer to win the golden cup.

A virtual 3D environment that allows user to explore and interact with surroundings

AI

VR

It is used to unlock your phone with facial recognition.

VR

VR

AI

AR

It combines the real world with a virtual world by adding images using computers.

AR

It is the ability of machine to learn , think and deduce.

AR

AI

AI

AR

VR

Virtual assistants use this technology to supports disabled people

AI

Lesson 3

Advaned Technology for People with Special Needs

- When we think about technology, we should imagine how everyone will use it.
- One of the most important goals of **assistive technology** is to:
  1. Improve independence of indivisiuals.
  2. Improve the lives of people of determination.

- عندما تفكر في التكنولوجيا، يجب أن نتخيل كيف سيستخدمها الجميع.
- فمن أهم أهداف التكنولوجيا المساعدة تحسين استقلالية الأفراد، وتحسين حياة ذوي الاحتياجات الخاصة.

Example:

1. Smartphones have the option to enlarge text or use voice commands to help people with poor vision or those who have difficulty using their hands.
2. Laptops with a **Braille terminal** help **blind** people read and write easily.

- مثال: 1 الهواتف الذكية لديها خيار لتكبير الخط أو استخدام الأوامر الصوتية لمساعدة الأشخاص ضعاف البصر أو الذين يواجهون صعوبة في استخدام أيديهم.
  2 أجهزة الكمبيوتر المحمولة التي تحتوي على لوحة مفاتيح برايل لتساعد المكفوفين على القراءة والكتابة بسهولة.

User Experiences (UX)

Technology User Experience

- It describes how people **use** and **interact** with advanced technological devices.
- User experience can be **positive** or **negative**.

- تجربة المُستخدِم تصف كيفية استخدام الأشخاص للأجهزة التكنولوجية المتطورة والتفاعل معها.
- تجربة المُستخدِم يمكن أن تكون إيجابية أو سلبية.

Think about a smart home robot and see how we can evaluate it.

لنفكر في الروبوت المنزلي الذكي، ولنر كيف يمكن تقييم هذا الروبوت.

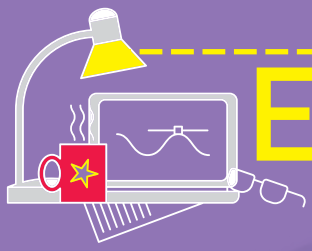
❶ Useful and easy to use مفيد وسهل الاستخدام	• It helps clean floors automatically. • يساعد في تنظيف الأرضيات تلقائيًا.
❷ Desirable مرغوب فيها	• It save time and effort. • يوفر الوقت والجهد.
❸ Accessible سهل الوصول إليها	• It can be used by the elderly or people with movement difficulty. • يمكن استخدامه من قبل كبار السن أو الأشخاص الذين يجدون صعوبة في الحركة.
❹ Can be developed يمكن تطويره	• To become smaller, reach diffcult places, or add a camera for remote control. • ليصبح أصغر حجمًا ويستطيع الوصول إلى الأماكن الصعبة، أو إضافة كاميرا لمساعدة المستخدم على توجيهه عند بُعد.
❺ Limitations القيود	• Robot price may be high. • It may not clean corners or stairs. • It might fail with small objects on the floor. • الروبوت قد يكون سعره مرتفعًا، وقد لا يستطيع تنظيف الزوايا الصعبة أو السلم، وربما لا يستطيع التعامل مع الأشياء الصغيرة التي تقع على الأرض.

In this way... you can evaluate the device and decide whether the user experience is positive or negative.

بهذه الطريقة، يمكنك تقييم الجهاز وتحديد ما إذا كانت تجربة المستخدم إيجابية أم سلبية.

أهم الكلمات والمصطلحات

Cutting-edge technology	تكنولوجيا حديثة متطورة	Assistive technology	التكنولوجيا المساعدة	Improve	يُحسِّن - يُطوِّر
Service	خدمة	Desirable	مرغوب فيه	Trustworthy	جدير بالثقة
Product	منتج	Independence	استقلالية	Development	تطوير
Accessible	سهل الوصول إليه	Evaluate	يُقيم	Interact	يتفاعل مع
Individuals	الأفراد	Enlarge	يكبر		



Exercises on Lesson 3

1 Choose the correct answer:

1 Advanced technology primarily aims to improve user ..... .

a. cost
b. network speed
c. independence
d. security features

2 ..... technology improves the lives of people with disabilities.

a. Assistive
b. Old
c. Traditional
d. complex (أسيوط 2024)

3 Smartphones offer larget text size options to aid individuals who suffer from ..... .

a. hearing loss
b. speech difficulty
c. low vision
d. hand tremor

4 Braille terminal help users perform the tasks of ..... .

a. reading
b. writing
c. speaking
d. both a and b

5 ..... describe how people use the product and interact with it and how to evaluate their experience.

a. User experiences
b. Meeting need
c. Both a and b
d. None of them (الإسكندرية – المنتزه أول 2025)

6 When evaluating a dvanced technology, if it saves time and effort, it is considered ..... .

a. not useful
b. desirable
c. expensive
d. complex

7 Braille is used mainly by ..... .

a. blind
b. deaf
c. programmers
d. designers

8 A camera in a home robot can be used for ..... .

a. remote control
b. charging the battery
c. play music
d. none of them

9 Smartphones help people with poor vision by ..... .

a. enlarging text b. playing music

c. charging faster d. none of them

10 If the product is practical and meets customer needs, the user experience will be ..... .

a. positive b. negative

c. neutral d. expensive

11 Complicated and hard-to-use products result in ..... user experiences.

a. positive b. negative c. neutral d. cheap

2 Put (✓) or (✗):

1 Home robot cleans floors automatically, so it is useful and easy to use. ( )

2 Smartphones can support blind people by enlarging text. ( )

3 User experience is always positive. (الجيزة – حدائق أكتوبر 2025) ( )

4 Voice commands in smartphones support people with hand difficulties. ( )

5 Braille keyboard is used mainly by deaf people. ( )

6 User experience describes how people use and interact with a product. (الإسكندرية – برج العرب 2024) ( )

7 If the device can be used by people with special needs, the device is accessible. ( )

8 One of the main goals of assistive technology is to improve a person's independence. (الجيزة – 6 أكتوبر 2025) ( )

Play with PONY

Choose (true) or (false) in the following sentences.

1. Braille terminal help non-verbal people to read & write.
   ✓ ✗

2. UX describes how people use and interact with advanced devices.
   ✓ ✗

3. User experience is unrelated with product development.
   ✓ ✗

4. User experience is always positive.
   ✓ ✗

5. Desirable means saving time and effort.
   ✓ ✗

6. Accessible means that it can be used by elderly or people with movement difficulty.
   ✓ ✗

7. Useful and easy to use product means the product difficult to use.
   ✓ ✗

8. The option to enlarge text is used to help people with poor vision.
   ✓ ✗